

Teaching Plan

Department of Orthodontics & dentofacial Orthopedics

UG Practical and Clinical Schedule

Day	Time	2 nd year	3 rd year	Final year
Monday	10-1	-	-	Clinical posting
	2-5	-	Clinical posting	
Tuesday	10-1			Clinical posting
	2-5	-	Clinical posting	
Wednesday	10-1		-	Clinical posting
	2-5	-	Clinical posting	
Thursday	9-1		Orthotech(9 am - 11am)	Clinical posting
	2-5	-	Clinical posting	
Friday	9-1		-	Clinical posting
	2-5	Ortho tech	Clinical posting	
Saturday	9-1		-	Clinical posting
	2-5	Half day -		

2nd year UG students will have Ortho-tech class of 3 hrs every Friday per week. Senior lecturer conduct and supervise the class. Basic about stainless steel and orthodontics is taught to the students and small topics will be given for seminar presentation. In 2nd year student will have to complete the basic wire bending (straightening of 4 wires, triangle, and rectangle, square, U-V).

3rd year students will have 1 class of 2 hours /week every Thursday. batch wise Clinical posting will be scheduled 2pm to 5 pm Monday to Friday per week. Students should complete following wire bending in 3rd year.

- Preparation of “C” clasp with 19-gauge wire on ideal cast.
- Preparation of “C” clasp with 19-gauge wire on patient cast.
- Preparation of **Full** clasp with 19- gauge wire on ideal cast.
- Preparation of **Full** clasp with 19-gauge wire on *patient cast*.
- Preparation of **Adam’s** clasp with 22 gauge wire on *ideal cast*

- Preparation of **Adam's** clasp with 22-gauge wire on *patient cast*.
- Preparation of **Short Labial Bow** with 21 & 23 gauge wire on *ideal cast*
- Preparation of **Short Labial Bow** with 21 & 23 gauge wire on *patient cast*
- Preparation of **Long Labial Bow** with 21 & 23 gauge wire on *ideal cast*

4th year students will have daily clinical postings in morning 10am-1pm and weekly 2 theory classes. Students will have to complete 10 model analysis & appliance wire bending & fabrication.

Theory Hours40 Hours.

Practical & Clinical Hrs. 150 Hours.

Theory classes will be conducted by Senior lecturer, reader, professors as per the allotment of the topics. Yearly 2 internal assessments & 1 preliminary theory & practical exam will be conducted.

Final Year:-

- Preparation of **Single Cantilever** spring with 23 gauge wire on 11 and 21 *ideal cast*.
- Preparation of **Single Cantilever** spring with 23 gauge wire on 11 and 21 *patient cast*
- Preparation of **"Z"** spring with 23 gauge wire on 11 and 21 *ideal cast*
- Preparation of **"Z"** spring with 23 gauge wire on 11 and 21 *patient cast*
- Preparation of **Finger** spring with 23 gauge wire on 11 and 21 *ideal cast*
- Preparation of **Finger** spring with 23 gauge wire on 11 and 21 *patient cast*
- Preparation of **'T'** spring with 23 gauge wire on premolars in *ideal cast*
- Preparation of **'T'** spring with 23 gauge wire on premolars in *patient cast*.
- Preparation of **Self Supported, u loop , palatal ,reverse loop Canine Retractor** with 23 gauge wire on both sides.
- Wax appliances-**Hawleys appliance, Vestibular screen, Catliance appliance ,Zspring with posterior bite plane**
- 10 **model analysis**

Theory syllabus distribution

Department of Orthodontics						
class	theory					
	1st internal syllabus	allotted staff	2nd internal syllabus	allotted staff	prelim syllabus	allotted staff
final year	Definition, Aims, objects and scope of orthodontics	Dr. Ankita Jaybhaye	Orthodontic Diagnosis	Dr. Sujit Zadake	Biology of tooth movement	Dr. Pravinkumar Marure
	Basic principles of growth	Dr. Shilpa Kendre	Treatment Planning	Dr. Pravinkumar Marue	The mechanics of tooth movement	Dr. Pravinkumar Marure
	Basic Concepts of studying growth	Dr. Shilpa Kendre	Model Analysis	Dr. Shilpa Kendre	Anchorage	Dr. Pravinkumar Marure
	prenatal growth of craniofacial structures	Dr. Ankita Jaybhaye	Basic Cephalometric	Dr. Shilpa Kendre	Fixed appliances	Dr. Yatishkumar Joshi
	postnatal growth of craniofacial structures	Dr. Ankita Jaybhaye	Cephalometric Analysis	Dr. Shilpa Kendre	Removable Appliances	Dr. Yatishkumar Joshi
	Genetics of Orthodontics	Dr. Sujit Zadake	Skeletal maturity indicators	Dr. Yatishkumar Joshi	Interceptive Orthodontics	Dr. Ankita Jaybhaye
	Development of Dentition and occlusion	Dr. Sujit Zadake	Methods of gaining space arch expansion	Dr. Shilpa Kendre	Preventive Orthodontics	Dr. Ankita Jaybhaye
	Functional development	Dr. Sujit Zadake	Epidemiology of malocclusion	Dr. Sujit Zadake	Age factors in Orthodontics	Dr. Sujit Zadake
	Normal occlusion and its characteristics. Factors responsible for establishment and maintenance of normal occlusion	Dr. Shilpa Kendre	Etiology of malocclusion	Dr. Shilpa Kendre	Myofunctional Appliances classification and diagnosis	Dr. Yatishkumar Joshi
	Malocclusion-Types, different classifications & differential diagnosis	Dr. Shilpa Kendre	Habits	Dr. Shilpa Kendre	Myofunctional Appliances	Dr. Yatishkumar Joshi
	Malocclusion-Types, different classifications & differential diagnosis	Dr. Shilpa Kendre	Habits	Dr. Shilpa Kendre	Myofunctional Appliances	Dr. Yatishkumar Joshi
	Orthodontic Diagnosis	Dr. Sujit Zadake			Orthopaedic Appliances	Dr. Yatishkumar Joshi

					Class I Common malocclusion	Dr. Shilpa Kendre
					Class II malocclusion	Dr. Sujit Zadake
					Class III malocclusion	Dr. Sujit Zadake
					Cleft lip & Palate	Dr. Shilpa Kendre
					Surgical Orthodontics	Dr. Ankita Jaybhaye
					Adult Orthodontics	Dr. Pravinkumar Marure
					Retention and relapse	Dr. Pravinkumar Marure
					Advances in orthodontics	Dr. Sujit Zadake
					Genetics of Orthodontics	Dr. Ankita Jaybhaye
					Lab procedures	Dr. Ankita Jaybhaye

PG Teaching Plan

DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

Day	Year	9- 10:30 AM	10:30-5PM(Saturday 10:30-1PM)
Monday	I MDS	Preclinical/OPD	clinical /OPD/Lab work/synopsis
	II MDS	preclinical/Lab work	case discussion /clinical work
	III MDS	discussion /clinical work	
Tuesday	I MDS	seminar	preclinical/clinical work/OPD
	II MDS		clinical work
	III MDS		
Wednesday	I MDS	journal club	clinical /OPD
	II MDS		case discussion
	III MDS		clinical work
Thursday	I MDS	seminar	preclinical/clinical work/OPD
	II MDS		case discussion
	III MDS		clinical work
Friday	I MDS	journal club	clinical work/OPD
	II MDS		clinical work /case discussion
	III MDS		
Saturday	I MDS	preclinical/clinical work/discussions	LD work/clinical work
	II MDS	discussion/lab work/clinical work	clinical work/LD/Thesis work
	III MDS	clinical work	clinical work/Thesis work

MUHS guidelines for post graduate curriculum are strictly followed during 3 years of PG training.

First year PG

In first six months of first year PG Guides will be allotted and under Guides supervision every student will be trained to obtain

- proper clinical history,
- methodical examination of the patient,
- perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dentofacial deformities,
- And should be competent to fabricate and manage the most appropriate appliance -intra or extra oral, removable or fixed, mechanical or functional, and active or passive - for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of dentofacial deformities.

OPD days will be divided among the students so that every PG student gets to examine and diagnose different Cases. OPD will be first analyzed by the student and then is supervised and discussed by the senior staff. morning half will be scheduled for seminar, JC presentations, OPD and preclinical exercise. senior staff and Guide will supervise, asses and evaluate each and every PG for their work. afternoon half will be reserved for Clinical, lab work and synopsis. apart from clinical training, PG students will be guided to search dissertation topics, get it approved from guide and synopsis should be submitted to university at the end of 6 months of 1st year library dissertation should be completed within 16 months of PG. Every PG should present Seminar JC and take 4-5 UG lectures per year .

Day will be scheduled as per the department timetable

Pre- Clinical Exercises

A general outline of the preclinical exercises is

- General Wire bending exercises to develop the manual dexterity.
- Clasps, Bows and springs used in the removable appliances.
- Soldering and welding exercises.
- Fabrication of removable habit breaking, mechanical and functional appliances, also all types of space maintainers and space retainers.
- Bonwill Hawley Ideal arch preparation.
- Construction of orthodontic models trimmed and polished preferably as per specifications of A.B.O.
- Cephalometric tracing and various Analyses, also superimposition methods
- Fixed appliance MBT & typodont exercises.
- Clinical photography
- Computerized imaging
- Handling of equipment's like vacuum forming appliances and hydro solder etc.

Other work to be done during first year

- Its mandatory to attend research methodology workshop for first year PG
- Topics for dissertations are allotted within first month of first year PG Protocol for dissertation to be submitted on or before the end of six months from the date of admission.
- Seminars: One Seminar per week to be conducted in the department. A minimum of five seminars should be presented by each student each year
- Journal club: One Journal club per week to be conducted in the department. A minimum of five JC should be presented by each student each year
- Under graduate classes: Around 4- 5 classes should be handled by each post-graduate student
- Inter-departmental meetings: should be held once in a month.
- Case discussions
- Basic subjects classes
- Term paper for basic subjects.

Second Year:

The clinical Cases taken up are followed under the guidance of the staff. Minimum 60 Cases should be taken up by every pg. after finishing Pri-clinics pg students are allowed to do the patients. Chair side Case presentation will be done and treatment will be decided in the presence of all the teaching staff members. Treatment progress will be supervised and guided by the staff members. Each and every PG student should have following Cases –

- Removable active appliances - 5
- Fixed Orthodontic appliance
- Minimum 5 Cases Class - I malocclusion with Crowding-
- 5 Cases Class - I malocclusions with bi-maxillary protrusion-
- 4 Cases Class - II division-1
- 5 Cases Class - II division
- 4 Cases Class - III (Orthopaedic, Surgical, Orthodontic Cases)
- 1 each Inter disciplinary Cases-
- 2 Cases Removable functional appliance Cases
- 5 Cases Fixed functional appliances
- 5 Cases Dento-facial orthopaedic appliances
- 5 Cases Appliance for arch development

- 5 Cases Fixed mechano therapy Cases (Begg, PEA, Tip edge, Edgewise, lingual) Retention procedures of above treated Cases.

Other routine work as follows.

1. Seminars: One Seminar per week are conducted in the department. Each student presents a minimum of five seminars each year. Every Thursday and Wednesday is scheduled for JC and seminar.
2. Journal club: One Journal club per week is conducted in the department. Each student should present a minimum of five seminars each year. Every Thursday and Wednesday is scheduled for JC and seminar.
3. 5 copies of Library dissertation should be submitted on or before the end of second year.
4. Undergraduate classes: each post-graduate student takes around 4-5 classes.
5. Inter-departmental meetings: held's once in a month
6. Chair side Case discussions is done with all the staff members and students
7. Field visits: To attend dental camps and to educate the masses.
8. Internal assessment 15 days gap after every paper.
9. Dissertation work: On getting the approval from the university work for the dissertation to be started.

Third Year:

Exam going PGs should submit their dissertation before 6 months of exam. Incomplete dissertation will not be allowed to appear for the exam. At least 2 departmental theory exams will be conducted before the mock practical exam. Mock practical exam will be conducted 2 months before final exam.

Other routine work as follows:

- Seminars: One Seminar per week to be conducted in the department. Each student should present a minimum of five seminars each year.
- Journal Club: One Journal club per week to be conducted in the department. A minimum of five seminars should be presented by each student each year.
- Under graduate classes: each post -graduate student, should handle around 4-5 classes.

- Exam Cases reevaluation.
- Inter-departmental meetings: held once in a month.
- The completed dissertation is submitted 6 months before the final examination
- Field visits: student should attend dental camps and to educate the masses.